

18379 U.S. PTO
020604

Please type a plus sign (+) inside this box → ☐

PTO/SB/05 (05-03)

Approved for use through 10/31/2002. OMB 0651-0032
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 C.F.R. 1.53(b))

Attorney Docket No.		4041K-000100/DVA
First Inventor	Takahide Ohara	
Title	Cooling Apparatus Boiling And Condensing Refrigerant With A Refrigerant Vapor Passage Having A Larger Cross Sectional Area	
Express Mail Label No.	EV 406 074 444 US (02/06/2004)	

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)
2. ☐ Applicant claims small entity status.
See 37 CFR 1.27.
3. ☒ Specification (Total Pages)
(preferred arrangement set forth below)
 - Descriptive title of the invention ☒ Specification filed in English
 - Cross References to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table, or a computer program listing appendix
 - Background of the invention
 - Brief Summary of the invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
4. ☒ Drawing(s) (35 U.S.C. 113) (Total Sheets)
5. Oath or Declaration (Total Pages)
 - a. ☐ Newly executed (original or copy)
 - b. ☒ Copy from a prior application (37 CFR 1.63 (d))
(for a continuation/divisional with Box 18 completed)
 - i. ☐ **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6. ☒ Application Data Sheet. See 37 CFR 1.76

ADDRESS TO:

Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
 - a. ☐ Computer Readable Form (CRF)
 - b. Specification Sequence Listing on:
 - i. ☐ CD-ROM or CD-R (2 copies); or
 - ii. ☐ paper
 - c. ☐ Statements verifying identity of above copies

ACCOMPANYING APPLICATIONS PARTS

9. ☐ Assignment Papers (cover sheet & document(s))
10. ☐ 37 C.F.R. §3.73(b) Statement ☐ Power of Attorney
(when there is an assignee)
11. ☐ English Translation Document (if applicable)
12. ☒ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
13. ☒ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s)
(if foreign priority is claimed)
16. ☐ Request and Non Publication under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17. ☐ Other: _____

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☒ Divisional ☐ Continuation-in-part (CIP)

of prior application No: 10 / 279,164

Prior application information: Examiner Christopher M. Atkinson

Group / Art Unit: 3753

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

17. CORRESPONDENCE ADDRESS

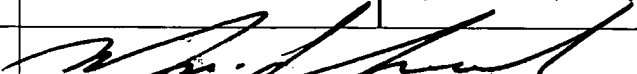
☒ Customer Number or Bar Code Label

27572

or ☐ Correspondence address below

(Insert Customer No. or Attach bar code label here)

Name	Harness, Dickey & Pierce, P.L.C.				
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Country	United States of America	Telephone	248-641-1600	Fax	248-641-0270

Name (Print/Type)	Michael J. Schmidt	Registration No. (Attorney/Agent)	34,007
Signature		Date	February 6, 2004

V 406 074 444 US

22141 U.S. PTO
10/774107

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<h1 style="margin: 0;">FEE TRANSMITTAL</h1> <h2 style="margin: 0;">for FY 2004</h2> <p style="margin: 5px 0 0 20px;"><i>Patent fees are subject to annual revision.</i></p>		Complete if Known	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		Application Number	To Be Assigned
TOTAL AMOUNT OF PAYMENT (\$) 770		Filing Date	Herewith
		First Named Inventor	Takahide Ohara
		Examiner Name	Christopher M. Atkinson
		Art Unit	3753
		Attorney Docket No.	4041K-000100/DVA

<p>METHOD OF PAYMENT (check all that apply)</p> <p> <input checked="" type="checkbox"/> Check <input type="checkbox"/> Credit card <input type="checkbox"/> Money Order <input type="checkbox"/> Other <input type="checkbox"/> None </p> <p><input type="checkbox"/> Deposit Account:</p> <div style="margin-left: 20px;"> Deposit Account Number: 08-0750 </div> <div style="margin-left: 20px;"> Deposit Account Name: Harness, Dickey & Pierce, P.L.C. </div> <p>The Director is authorized to: (check all that apply)</p> <p> <input type="checkbox"/> Charge fee(s) indicated below <input checked="" type="checkbox"/> Credit any overpayments <input checked="" type="checkbox"/> Charge any additional fee(s) during the pendency of this application <input type="checkbox"/> Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account. </p> <p style="text-align: center;">FEE CALCULATION</p> <p>1. BASIC FILING FEE</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr> <td>1001</td> <td>770</td> <td>2001</td> <td>385</td> <td>Utility filing fee</td> <td style="border: 1px solid black; text-align: center;">770</td> </tr> <tr> <td>1002</td> <td>340</td> <td>2002</td> <td>170</td> <td>Design filing fee</td> <td style="border: 1px solid black; text-align: center;"></td> </tr> <tr> <td>1003</td> <td>530</td> <td>2003</td> <td>265</td> <td>Plant filing fee</td> <td style="border: 1px solid black; text-align: center;"></td> </tr> <tr> <td>1004</td> <td>770</td> <td>2004</td> <td>385</td> <td>Reissue filing fee</td> <td style="border: 1px solid black; text-align: center;"></td> </tr> <tr> <td>1005</td> <td>160</td> <td>2005</td> <td>80</td> <td>Provisional filing fee</td> <td style="border: 1px solid black; text-align: center;"></td> </tr> <tr> <td colspan="5" style="text-align: right;">SUBTOTAL (1)</td> <td style="border: 1px solid black; text-align: center;">(\$ 770)</td> </tr> </tbody> </table> <p>2. EXTRA CLAIM FEES</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td>Total Claims</td> <td style="border: 1px solid black; text-align: center;">4</td> <td>-20 **</td> <td>=</td> <td style="border: 1px solid black; text-align: center;">0</td> <td>X</td> <td style="border: 1px solid black; text-align: center;">18</td> <td>=</td> <td style="border: 1px solid black; text-align: center;">0</td> </tr> <tr> <td>Independent Claims</td> <td style="border: 1px solid black; text-align: center;">1</td> <td>-3 **</td> <td>=</td> <td style="border: 1px solid black; text-align: center;">0</td> <td>X</td> <td style="border: 1px solid black; text-align: center;">86</td> <td>=</td> <td style="border: 1px solid black; text-align: center;">0</td> </tr> <tr> <td>Multiple Dependent</td> <td></td> <td></td> <td></td> <td style="border: 1px solid black; text-align: center;">0</td> <td>X</td> <td style="border: 1px solid black; text-align: center;"></td> <td>=</td> <td style="border: 1px solid black; text-align: center;">0</td> </tr> </table> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr> <td>1202</td> <td>18</td> <td>2202</td> <td>9</td> <td>Claims in excess of 20</td> <td style="border: 1px solid black; text-align: center;"></td> </tr> <tr> <td>1201</td> <td>86</td> <td>2201</td> <td>43</td> <td>Independent claims in excess of 3</td> <td style="border: 1px solid black; text-align: center;"></td> </tr> <tr> <td>1203</td> <td>290</td> <td>2203</td> <td>145</td> <td>Multiple dependent claim, if not paid</td> <td style="border: 1px solid black; text-align: center;"></td> </tr> <tr> <td>1204</td> <td>86</td> <td>2204</td> <td>43</td> <td>** Reissue independent claims over original patent</td> <td style="border: 1px solid black; text-align: center;"></td> </tr> <tr> <td>1205</td> <td>18</td> <td>2205</td> <td>9</td> <td>** Reissue claims in excess of 20 and over original patent</td> <td style="border: 1px solid black; text-align: center;"></td> </tr> <tr> <td colspan="5" style="text-align: right;">SUBTOTAL (2)</td> <td style="border: 1px solid black; text-align: center;">(\$ 0)</td> </tr> </tbody> </table>	Large Entity		Small Entity		Fee Description	Fee Paid	Fee Code	Fee (\$)	Fee Code	Fee (\$)	1001	770	2001	385	Utility filing fee	770	1002	340	2002	170	Design filing fee		1003	530	2003	265	Plant filing fee		1004	770	2004	385	Reissue filing fee		1005	160	2005	80	Provisional filing fee		SUBTOTAL (1)					(\$ 770)	Total Claims	4	-20 **	=	0	X	18	=	0	Independent Claims	1	-3 **	=	0	X	86	=	0	Multiple Dependent				0	X		=	0	Large Entity		Small Entity		Fee Description	Fee Paid	Fee Code	Fee (\$)	Fee Code	Fee (\$)	1202	18	2202	9	Claims in excess of 20		1201	86	2201	43	Independent claims in excess of 3		1203	290	2203	145	Multiple dependent claim, if not paid		1204	86	2204	43	** Reissue independent claims over original patent		1205	18	2205	9	** Reissue claims in excess of 20 and over original patent		SUBTOTAL (2)					(\$ 0)	<p>3. 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1252	420	2252	210	Extension for reply within second month																																																																																																																																																																																																																																																																																																						
1253	950	2253	475	Extension for reply within third month																																																																																																																																																																																																																																																																																																						
1254	1,480	2254	740	Extension for reply within fourth month																																																																																																																																																																																																																																																																																																						
1255	2,010	2255	1,005	Extension for reply within fifth month																																																																																																																																																																																																																																																																																																						
1401	330	2401	165	Notice of Appeal																																																																																																																																																																																																																																																																																																						
1402	330	2402	165	Filing a brief in support of an appeal																																																																																																																																																																																																																																																																																																						
1403	290	2403	145	Request for oral hearing																																																																																																																																																																																																																																																																																																						
1451	1,510	1451	1,510	Petition to institute a public use proceeding																																																																																																																																																																																																																																																																																																						
1452	110	2452	55	Petition to revive - unavoidable																																																																																																																																																																																																																																																																																																						
1453	1,330	2453	665	Petition to revive - unintentional																																																																																																																																																																																																																																																																																																						
1501	1,330	2501	665	Utility issue fee (or reissue)																																																																																																																																																																																																																																																																																																						
1502	480	2502	240	Design issue fee																																																																																																																																																																																																																																																																																																						
1503	640	2503	320	Plant issue fee																																																																																																																																																																																																																																																																																																						
1460	130	1460	130	Petitions to the Commissioner																																																																																																																																																																																																																																																																																																						
1807	50	1807	50	Processing fee under 37 CFR 1.17 (q)																																																																																																																																																																																																																																																																																																						
1806	180	1806	180	Submission of Information Disclosure Stmt																																																																																																																																																																																																																																																																																																						
8021	40	8021	40	Recording each patent assignment per property (times number of properties)																																																																																																																																																																																																																																																																																																						
1809	770	2809	385	Filing a submission after final rejection (37 CFR § 1.129(a))																																																																																																																																																																																																																																																																																																						
1810	770	2810	385	For each additional invention to be examined (37 CFR § 1.129(b))																																																																																																																																																																																																																																																																																																						
1801	770	2801	385	Request for Continued Examination (RCE)																																																																																																																																																																																																																																																																																																						
1802	900	1802	900	Request for expedited examination of a design application																																																																																																																																																																																																																																																																																																						

**or number previously paid, if greater; For Reissues, see above

SUBMITTED BY		Complete (if applicable)	
Name (Print/Type)	Michael J. Schmidt	Registration No. Attorney/Agent	34,007
Signature		Telephone	(248) 641-1600
		Date	February 6, 2004

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This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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